Maryland Historical Trust

Maryland Inventory of Historic Properties number: ~~M: 24-36~~ M: 20-45

Name: Watkins Mill Rd over Whetstone Run.

The bridge referenced herein was inventoried by the Maryland State Highway Administration as part of the Historic Bridge Inventory, and SHA provided the Trust with eligibility determinations in February 2001. The Trust accepted the Historic Bridge Inventory on April 3, 2001. The bridge received the following determination of eligibility.

MARYLAND HISTORICAL TRUST

Eligibility Recommended _____ Eligibility Not Recommended __X____

Criteria: ____A ____B ____C ____D Considerations: ___A ___B ___C ___D ___E ___F ___G __None

Comments: _____

_____

_____

Reviewer, OPS: _Anne E. Bruder_____ Date: __3 April 2001____

Reviewer, NR Program: __Peter E. Kurtze_____ Date: __3 April 2001____

M:20-45

Maryland Inventory of Historic Properties
Historic Bridge Inventory
Maryland State Highway Administration
Maryland Historical Trust

MHT Number ~~M:24-36~~

Name and SHA No. MG 1 over Whetstone Run

Location:
Street/Road Name and Number: Watkins Mill Road over Whetstone Run

City/Town: Gaithersberg Vicinity X

County: Montgomery

Ownership: __State__County_X_Municipal__Other

This bridge projects over: __Road__Railway_X_Water__Land

Is the bridge located within a designated district:__yes_X_no

__NR listed district__NR determined eligible district
__locally designated__other
Name of District_____

Bridge Type:

__Timber Bridge
__Beam Bridge__Truss-Covered__Trestle
__Timber-and-Concrete

__Stone Arch

__Metal Truss

__Movable Bridge
__Swing __Bascule Single Leaf__Bascule Multiple Leaf
__Vertical Lift__Retractile__Pontoon

_X_Metal Girder
_X_Rolled Girder __Rolled Girder Concrete Encased
__Plate Girder __Plate Girder Concrete Encased

__Metal Suspension

__Metal Arch

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__Metal Cantilever

__Concrete
__Concrete Arch __Concrete Slab__Concrete Beam
__Rigid Frame
__Other Type Name_____

Description:

Describe Setting:

Bridge No. MG 1 carries Watkins Mill north-south over Whetstone Run in Montgomery County, Maryland. The approaches are straight and ascend towards the bridge. The area to the east is primarily composed of woods. There are townhouses are visible to the southeast, and to the northwest.

Describe Superstructure and Substructure:

Bridge No. MG 01, is a temporary bridge built in the 1930's, consisting of a 35' single span with an open grid steel deck welded to four steel beams. This one lane bridge has a clear roadway width of 13'-6" is posted for a weight restriction of three tons. W-Beam type traffic barriers are connected to each side of the bridge. The temporary bridge was placed above the existing steel beams from the previous bridge. This was done because the existing steel beams were encased into the backwall of the each abutment and could not be removed unless portions of the abutments were removed. The substructure consists of one concrete abutment and one stone masonry abutment.

The superstructure is in poor condition. The open grid steel deck is made up of three sections in each direction thus creating an open joint between the sections. In the longitudinal direction, a thin steel plate was placed over each joint to cover up the voided area. These plates, which are fastened to the deck by bolts, are loose, crack, and rattle when traffic rides on them. there are no plates in the transverse directions that cover-up the open joints. there are four steel beams, in which each one is spliced at mid span with four two and five-eighth diameter bolts. All beams exhibit a 15% section loss due to corrosion. The substructure is in fair condition. The stone masonry in the south abutment needs to be repointed in several areas. In the northwest corner and northeast corner of the north abutment their is heavy spalling occurring.

Discuss Major Alterations:

The deck has been replaced and modern guardrails installed.

History:
When Built: 1930's
Why Built: Local transportation needs
Who Built: Unknown

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Why Altered: Structural and safety needs
Was this bridge built as part of an organized bridge building campaign: Yes

Surveyor Analysis:
This bridge may have NR significance for association with:
__A Events __Person
__C Engineering/Architectural

Was this bridge constructed in response to significant events in Maryland or local history:

It is unknown whether this bridge was constructed in response to significant events in Maryland or local history.

When the bridge was built and/or given a major alteration, did it have a significant impact on the growth and development of the area?

It is unknown whether the construction and/or alteration of this bridge has had significant impact on the growth and development of the area.

Is the bridge located in an area which may be eligible for historic designation and would the bridge add to or detract from historic and visual character of the possible district?

No, this bridge does not appear to be located in an area which may be eligible for historic designation.

Is the bridge a significant example of its type?

This bridge is not a significant example of its type.

Does the bridge retain integrity of the important elements described in the Context Addendum?

No, this bridge does not appear to retain the integrity of its primary character defining elements as defined within the Context Addendum. The deck has been replaced and modern guardrails have been installed.

Should this bridge be given further study before significance analysis is made and Why?

Further research of this bridge is unnecessary. This bridge does not retain its integrity as defined by the Context Addendum, and is not eligible for inclusion on the National Register of Historic Places.

Bibliography:

Greiner, Inc.

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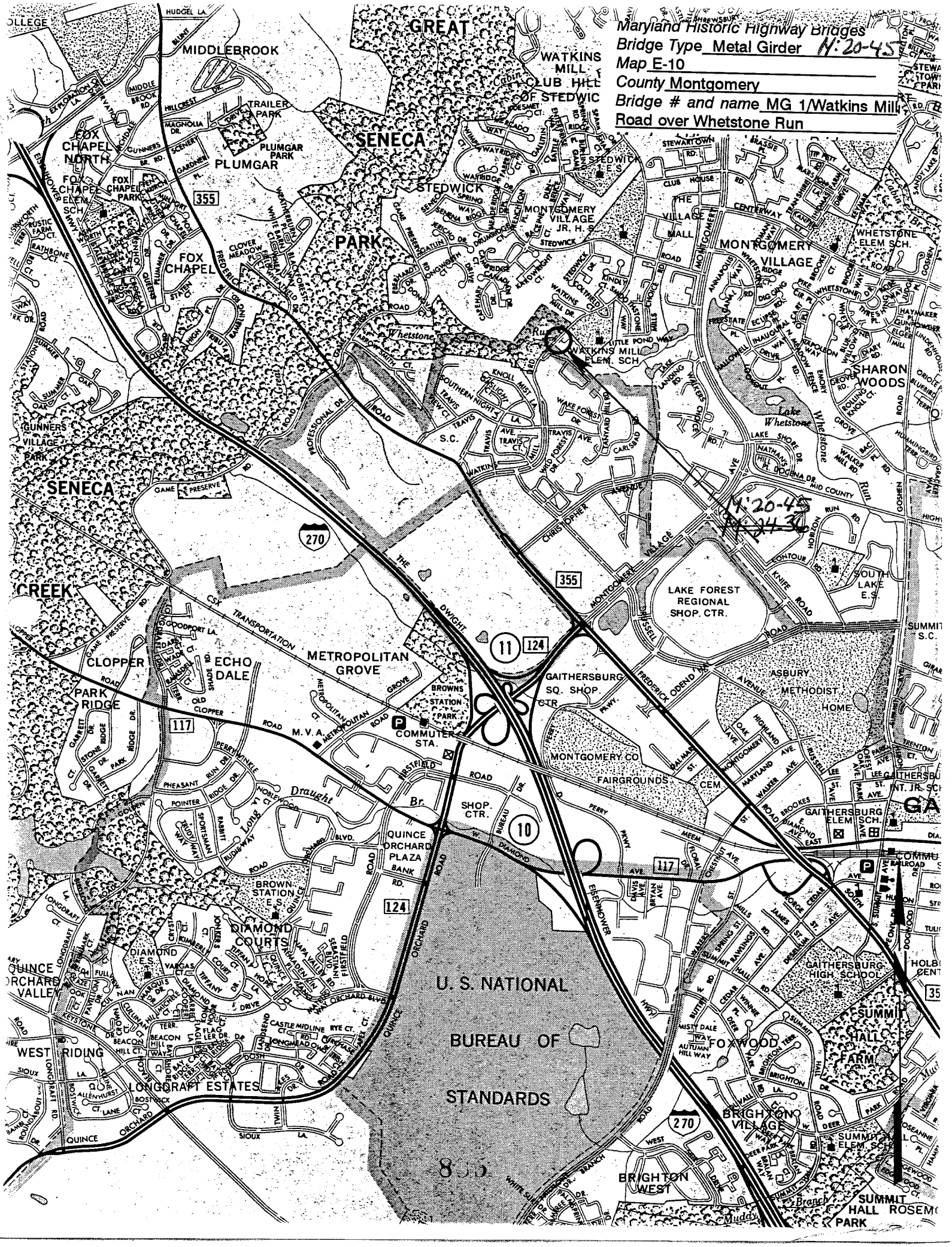
1995 Maryland Inventory of Historic Bridges.
Montgomery County
v.d. County Bridge Inspection Files.
Spero, P.A.C. & Company, and Louis Berger & Associates
1994 Historic Bridges in Maryland: Historic Bridge Context.
United States Geological Survey
1945 7.5' Gaithersberg Quadrangle, photorevised 1979.

Surveyor:
Name: Jason D. Moser **Date:** September 1995
Organization: State Highway Admin. **Telephone:** (410) 321-2213
Address: 2323 West Joppa Road Brooklandville, MD 21022


Maryland Historic Highway Bridges
Bridge Type Metal Girder M:20-45
Map E-10
County Montgomery
Bridge # and name MG 1/Watkins Mill
Road over Whetstone Run
M:20-45
M:24-3
GREAT
SENECA
PARK
CREEK
WATKINS MILL
CLUB HILL OF STEDWICK
MIDDLEBROOK
FOX CHAPEL NORTH
FOX CHAPEL ELEM SCH
FOX CHAPEL PARK
FOX CHAPEL
PLUMGAR PARK
PLUMGAR
STEDWICK
STEDWICK E.S.
MONTGOMERY VILLAGE JR. H. S.
THE VILLAGE MALL
MONTGOMERY VILLAGE
WHETSTONE ELEM SCH.
SHARON WOODS
WATKINS MILL ELEM. SCH
LITTLE POND WOODS
Whetstone Run
Lake Whetstone
SOUTHERN NIGHTS
KNOLL MIST LA.
TRAVIS AVE
TRAVIS CT.
S.C.
WAKE FOREST DR.
TANYARD HILL DR.
CARLSBAD
LAKE SHORE DR
NATHAN'S HILL PL.
GOSHEN RUN RD.
MID COUNTY
HORIZON RUN RD.
SOUTH LAKE E.S.
LAKE FOREST REGIONAL SHOP. CTR.
KNIFE ROAD
SUMMIT S.C.
GUNNERS VILLAGE PARK
GAME PRESERVE
CLOPPER ROAD
ECHO DALE
PARK RIDGE
METROPOLITAN GROVE
BROWNS STATION PARK
M.V.A.
COMMUTER STA.
CSX TRANSPORTATION
DWIGHT
GAITHERSBURG SQ. SHOP. CTR.
ASBURY METHODIST HOME
MONTGOMERY CO. FAIRGROUNDS
CEM.
GAITHERSBURG ELEM. SCH.
GAITHERSBURG HIGH SCHOOL
SUMMIT HALL FARM
FOXWOOD
BRIGHTON VILLAGE
BRIGHTON WEST
SUMMIT ELEM. SCH.
SUMMIT HALL PARK
PHEASANT RUN DR.
POINTER RIDGE DR.
Draught Br.
Long Br.
Muddy Branch
BROWN STATION E.S.
DIAMOND COURTS
DIAMOND E.S.
QUINCE ORCHARD PLAZA
SHOP. CTR.
QUINCE ORCHARD VALLEY
WEST RIDING
LONGDRAFT ESTATES
U. S. NATIONAL BUREAU OF STANDARDS
355
270
117
124
11
10
80


NO
BICYCLES

Montgomery Co. M:20-45

Brk MG1 Watkins Mill

Looking West

4/8/96

Jason D. Moser

Montgomery Co. M:20-45

Brt MG-1 Watkins Mill

Looking North

4/8/96

Jason D. Moser

Montgomery Co. M: 20-45

Br & MG-1 Watkins Mill

Looking South

4/8/96

Jasen S. Moser


WEIGHT
LIMIT
3
TONS

Montgomery Co. MI 20-45
Br # M 61 Watkins Mill
Looking East
4/8/96
Jason D. Moser